

*References in outside folder***CERTIFICATE OF MAILING (37 CFR 1.8)**Date of Deposit with U.S. Postal Service: July 17, 2003

I hereby certify that this paper is being deposited with the United States Postal Service as first class mail under 37 CFR 1.8 on the date indicated above and is addressed to Commissioner of Patents, P.O. Box 1450,

Alexandria, VA 22313-1450

Julie K. Lyons, Legal AssistantJulie K Lyons

Name of Person Mailing Paper

Signature

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit : 1614
Examiner : Not Yet Assigned
Applicant(s) : Richard C. Thomas, Toni-Jo Poel, Michael Barbachyn, Mikhail F. Gordeev, Gary Luehr, Adam Renslo, Upinder Singh
Serial No. : 10/373286
Filed : February 24, 2003
For : N-aryl-2-oxazolidinone-5-carboxamides and Their Derivatives

Commissioner of Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT TRANSMITTAL
UNDER 37 CFR 1.97 AND 1.98**

Sir:

Information Disclosed. The information disclosed consists of the following:

[X] **Form PL-1449.** Provided herewith are copies of patent(s) and/or publication(s) as listed in the attached form PL-1449.

[X] At least to the extent required under §1.98(a)(3), a concise explanation of the relevance of references listed in form PL-1449 is:

- [] contained in the above-captioned specification as filed;
[] provided in a communication enclosed with this paper;

- ☐ provided in the International Search Report enclosed with this paper; and/or
☒ not necessary as all of the references cited are in the English language, or an English abstract is provided.

- ☐ **Disclosure from Predecessor Application.** Provided herewith is a copy (or the copy is already present in the present file wrapper in accordance with §1.53(d)) of one or more forms PL-1449 and/or search/examination reports of record in this or a predecessor application, Serial No. filed, the benefit of which is claimed under 35 USC 120. Copies of references are present in the prosecution history of the referenced application and are not supplied herewith pursuant to §1.98(d).


Basis for Consideration. This information disclosure statement is entitled to consideration by the Office under:

- ☒ §1.97(b), as being filed within three months of the filing date of the above-captioned application and/or the date of entry of the National Stage, if later, and/or before the mailing date of the first Office action on the merits. Applicant(s) is/are unaware that any office action has issued in this case. However, in the event a first office action has issued, prior to the mailing of this document, then authorization is given to charge the late fee to the deposit account identified below.
- ☐ §1.97(c), as being filed after the period specified in §1.97(b), but before the mailing date of a final action under §1.113 and/or the notice of allowance under §1.311. Consideration of this information disclosure statement at this time is requested for the reason checked below:
- ☐ Authorization is hereby provided to charge Deposit Account No. 21-0718 the fee set forth in §1.17(p), \$240.00, or such greater or lesser amount as the Commissioner may from time to time prescribe by rule. Triplicate copies of this paper are provided to facilitate the charge to the Deposit Account.
- ☐ A statement as specified in 37 CFR 1.97(e) below.
- ☐ §1.97(d), as being filed after the period specified in §1.97(c), but on or before payment of the issue fee and is accompanied by:
- ☐ Authorization to charge Deposit Account No. 21-0718 the fee set forth in §1.17(i), \$130.00, or such greater or lesser amount as the Commissioner may from time to time prescribe by rule. Triplicate copies of this paper are provided to facilitate the charge to the Deposit Account.
- ☐ A petition requesting consideration of the information disclosure statement; and
- ☐ A statement as specified in 37 CFR 1.97 (e) below.

- ☐ §1.97(e), this is a supplemental information disclosure statement. A prior information disclosure statement has already been filed. Applicant certifies, as provided in 37 CFR 1.97 (e), that
- ☐ Each new item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three (3) months prior to the filing of this statement.
- ☐ No item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing below, after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three (3) months prior to the filing of this statement.

Disclaimer. In accordance with §1.97(g) and (h), the filing of this information disclosure statement is not to be construed as an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in §1.56, and is not to be construed as a representation that a search has been made.

Respectfully submitted,


Jonathan P. O'Brien, Patent Agent
Registration No. 50,852

Date: 7.16.03

Pharmacia & Upjohn Company
Global Intellectual Property
301 Henrietta Street
Kalamazoo, Michigan 49001

Telephone No. (269) 833-2102 or (269) 833-9500
Telefax No. (269) 833-8897 or (269) 833-2316

Attachment(s)

- ☒ Form 1449 with copies of reference(s)
☐ Form 1449 from predecessor application (no references)
☐ Communication providing concise explanation of relevance
☒ International Search Report

LIST OF REFERENCES CITED BY APPLICANT <i>(Use several sheets if necessary)</i>				Atty. Docket No. 00489.US1		Serial No. 10/373286			
				Applicants: Richard C. Thomas, Toni-Jo Poel, Michael Barbachyn, Mikhail F. Gordeev, Gary Luehr, Adam Renslo, Upinder Singh					
				Filing Date February 24, 2003		Group 1614			
U.S. PATENT DOCUMENTS									
Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate		
	AA	4,705,799	Nov. 10, 1987	Gregory	546	209	Dec. 2, 1985		
	AB	5,043,443	Aug. 27, 1991	Carlson et. al.	544	112	Jul. 24, 1990		
	AC	5,164,510	Nov. 17, 1992	Brickner	548	231	Feb. 20, 1991		
	AD	5,182,403	Jan. 26, 1993	Brickner	548	231	Apr. 23, 1992		
	AE	5,225,565	Jul. 6, 1993	Brickner	548	229	Apr. 23, 1992		
	AF	5,231,188	Jul. 27, 1993	Brickner	548	221	May 13, 1992		
	AG	5,247,090	Sep. 21, 1993	Brickner	546	89	Jan. 21, 1993		
	AH	5,523,403	Jun. 4, 1996	Barbachyn	544	137	May 22, 1995		
	AI	5,529,998	Jun. 25, 1996	Habich et. al.	514	233.8	Jul. 27, 1995		
	AJ	5,547,950	Aug. 20, 1996	Hutchinson et. al.	514	252	Oct. 31, 1994		
	AK	5,565,571	Oct. 15, 1996	Barbachyn et. al.	546	144	Apr. 28, 1994		
	AL	5,614,535	Mar. 25, 1997	Juraszyk et. al.	514	326	Aug. 18, 1995		
	AM	5,627,181	May 6, 1997	Riedl et. al.	514	326.8	Jul. 17, 1995		
	AN	5,652,238	Jul. 29, 1997	Brickner et. al.	514	235.8	Sep. 27, 1994		
	AO	5,684,023	Nov. 4, 1997	Riedl et. al.	514	337	Jul. 17, 1995		
	AP	5,688,792	Nov. 18, 1997	Barbachyn et. al.	514	235.5	Mar. 5, 1996		
	AQ	5,698,574	Dec. 16, 1997	Riedl et. al.	514	376	Jul. 17, 1995		
	AR	5,792,765	Aug. 11, 1998	Riedl et. al.	514	236.8	Feb. 3, 1997		
	AS	5,827,857	Oct. 27, 1998	Riedl et. al.	514	301	Jan. 9, 1997		
	AT	5,843,967	Dec. 1, 1998	Riedl et. al.	514	340	Nov. 15, 1996		
	AU	5,861,413	Jan. 19, 1999	Häbich et. al.	514	312	Jan. 9, 1997		
	AV	5,869,659	Feb. 9, 1999	Stolle et. al.	544	114	Jan. 13, 1997		
	AW	5,952,324	Sep. 14, 1999	Barbachyn et. al.	514	211	May 14, 1997		
	AX	5,968,962	Oct. 19, 1999	Thomas et. al.	514	376	Aug. 13, 1996		
	AY	5,981,528	Nov. 9, 1999	Gravestock	514	252	Oct. 21, 1997		

LIST OF REFERENCES CITED BY APPLICANT <i>(Use several sheets if necessary)</i>				Atty. Docket No. 00489.US1		Serial No. 10/373286			
				Applicants: Richard C. Thomas, Toni-Jo Po 1, Michael Barbachyn, Mikhail F. Gordeev, Gary Luehr, Adam Renslo, Upinder Singh					
				Filing Date February 24, 2003		Group 1614			
	AZ	5,990,136	Nov. 23, 1999	Barbachyn et. al.	514	340	Aug. 15, 1997		
	BA	6,043,266	Mar. 28, 2000	Ennis et. al.	514	376	May 17, 1999		
	BB	6,051,716	Apr. 18, 2000	Hutchinson et. al.	548	229	Feb. 10, 1999		
	BC	6,069,145	May 30, 2000	Betts	514	252	Jan. 21, 1997		
	BD	6,069,160	May 30, 2000	Stolle et. al.	514	367	Apr. 12, 1996		
	BE	6,110,936	Aug. 29, 2000	Gravestock	514	315	Jan. 19, 1997		
	BF	6,166,056	Dec. 26, 2000	Thomas et. al.	514	376	Aug. 24, 1998		
	BG	6,194,441	Feb. 27, 2001	Roberts et. al.	514	340	Aug. 18, 1998		
	BH	6,239,152	May 29, 2001	Gordeev et. al.	514	340	Jan. 22, 1999		
	BI	6,239,283	May 29, 2001	Gage	548	225	Jan. 31, 2000		
	BJ	6,271,383	Aug. 7, 2001	Gravestock	546	209	Jul. 30, 1999		
	BK	6,313,307	Nov. 6, 2001	Ennis et. al.	548	229	Mar. 3, 2000		
FOREIGN PATENT DOCUMENTS									
		Document Number	Date	Country	Class	Subclass	Translation		
							Yes No		
		WO94/01110	Jan. 20, 1994	WIPO	A61K	31/42			
		WO95/07271	Mar. 16, 1995	WIPO	C07D	263/20			
		WO95/25106	Sep. 21, 1995	WIPO	C07D	413/10			
		WO96/13502	May 9, 1996	WIPO	C07D	413/10			
		WO96/15130	May 23, 1996	WIPO	C07D	491/048			
		WO96/23788	Aug. 8, 1996	WIPO	C07D	413/10			
		WO96/35691	Nov. 14, 1996	WIPO	C07D	487/04			
		WO97/09328	Mar. 13, 1997	WIPO	C07D	413/10			
		WO97/30995	Aug. 28, 1997	WIPO	C07D	413/10			
		WO98/54161	Dec. 3, 1998	WIPO	C07D	263/20			
		WO99/03846	Jan. 28, 1999	WIPO	C07D	263/24			
		WO99/29688	June 17, 1999	WIPO	C07D	413/10			

LIST OF REFERENCES CITED BY APPLICANT <i>(Use several sheets if necessary)</i>				Atty. Docket No. 00489.US1		Serial No. 10/373286				
				Applicants: Richard C. Thomas, Toni-Jo Poel, Michael Barbachyn, Mikhail F. Gordeev, Gary Luehr, Adam Renslo, Upinder Singh						
				Filing Date February 24, 2003		Group 1614				
		WO99/37641	July 29, 1999	WIPO	C07D	413/04		X (English abstract)		
		WO99/37652	July 29, 1999	WIPO	C07D	498/04		X (English abstract)		
		WO99/40094	Aug. 12, 1999	WIPO	C07D	498/04		X (English abstract)		
		WO99/64417	Dec. 16, 1999	WIPO	C07D	413/14				
		WO00/21960	April 20, 2000	WIPO	C07D	413/14				
		WO00/44741	Aug. 3, 2000	WIPO	C07D	335/00				
		WO00/73301	Dec. 7, 2000	WIPO	C07D	413/04				
		WO01/40236	June 7, 2001	WIPO	C07F	9/09				
		WO01/46185	June 28, 2001	WIPO	C07D	417/10				
		WO01/81350	Nov. 1, 2001	WIPO	C07D	491/10				
		WO02/059155	Aug. 1, 2002	WIPO	C07K	16/28				
		WO02/096916	Dec. 5, 2002	WIPO	C07F	9/09				
		WO03/006440	Jan. 23, 2003	WIPO	C07D	263/00				
		EP417044	Aug. 29, 1990	Europe	C07D	263/20				
		EP697408	Aug., 10, 1995	Europe	C07D	263/20				
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)										
		Abdelaal, et. al., "Synthesis of 1-[3-Methyl]-2(3H)-benzazolon-5- or 6-yl]-4-{4-[cis-2-(2,4-dichlorophenyl)-2-(1H-imidazol-1-yl-methyl)-1,3-dioxolan-4-yl]methyleneoxyphenyl]piperazines" Journal of Heterocyclic Chem., 29, 1069, (1992).								
		Barbachyn, et. al. "Identification of a Novel Oxazolidinone (U-100480) with Potent Antimycobacterial Activity." Journal of Medicinal Chemistry. 1996, 39, 680-685.								
		Blache, et. al. "Application of the Mercuric Acetate-Edetic Acid Oxidation Method To The Synthesis of 11-Aza-1,2,3,4,5,6,7,12bpOctahydroindolo[2,3-a]Quinolizines." Heterocycles, Vol. 45, No.1, Pp.57-69, 1997								
		Bodor, Nicholas and J. Hillis Miller, "Novel Approaches in Prodrug Design." Drugs of the Future Vol. VI, No. 3, 1981, pp. 165-182.								
		Brickner, Steven J. "Oxazolidinone Antibacterial Agents." Current Pharmaceutical Design. 1996, 2, 175-194.								
		Brickner, et. al. "Synthesis and Antibacterial Activity of U-100592 and U-100766, Two Oxazolidinone Antibacterial Agents for the Potential Treatment of Multidrug-Resistant Gram-Positive Bacterial Infections." Journal of Medicinal Chemistry. 1996, 39, 673-679.								

LIST OF REFERENCES CITED BY APPLICANT <i>(Use several sheets if necessary)</i>		Atty. Docket No. 00489.US1	Serial No. 10/373286
		Applicants: Richard C. Thomas, Toni-Jo Po l, Michael Barbachyn, Mikhail F. Gordeev, Gary Luehr, Adam Renslo, Upinder Singh	
		Filing Date February 24, 2003	Group 1614
		Bundgaard, Hans. <i>"Design of prodrugs: Bioreversible derivatives for various functional groups and chemical entities."</i> Design of Prodrugs, Chapter 1, 1985.	
		Cava, Michael P. and Matthew I. Levinson. <i>"Thionation Reactions of Lawesson's Reagents."</i> Tetrahedron Vol. 41, No. 22, pp. 5061-5087, 1985.	
		Clark, Robert L. and Arsenio A. Pessolano. <i>"Synthesis of Some Substituted Benzoxazolones."</i> Journal of the American Chemical Society. Vol. 80, pp. 1662, 1958.	
		Comins, et. al. <i>"Preparation of 2,6-Disubstituted 2,3-Dihydro-4-pyridones: Dehydrogenation of Trimethylsilyl Enol Ethers with Palladium (II) Acetate."</i> Tetrahedron Letters, Vol. 36, No. 52, pp. 9449-9452, 1995.	
		Comins, et. al. <i>"Regio- and Stereoselective Addition of Nucleophiles to 1- Phenoxy carbonyl-2,3-Dihydropyridium Salts."</i> Heterocycles, Vol. 37, No. 2, 1994.	
		Dehmlow, Eckehard, and Ralf Westerheide. <i>"Studies Towards 3,4-Dimethoxy-1-Methyl-1,2-Dihydropyridine, so-called Arecolidine, or its Tautomers."</i> Heterocycles, Vol. 37, No. 1, 1994.	
		Diez, et. al. <i>"Preparation of a New Chiral 5,6-Dihydropyridinium Synthon."</i> Heterocycles, Vol. 31, No. 3, 1990.	
		Dodd, Dharmpal and Allan Oehlschlager. <i>"Efficient Route to the Synthesis of C-2, C-3 Substituted 4-Piperidones."</i> Tetrahedron Letters, Vol. 32, No. 30, pp. 3643-3646, 1991.	
		Evans, et. al. <i>"Regioselective Preparation of α,β-Unsaturated Ketones via the Direct Dehydrogenation of Triisopropylsilyl Enol Ethers."</i> Tetrahedron Letters, Vol. 36, No. 23, pp. 3985-3988, 1995.	
		Gage, et. al. <i>"Stereodivergent synthesis of sulfoxide-containing oxazolidinone antibiotics."</i> Tetrahedron Letters, 41 (2000) 4301-4305.	
		Guerry, Philippe and Reinhard Neier, <i>"Photochemical Cycloadditions to 5,6-Dihydro-4-pyridones."</i> Chimia 41 (1987) No. 10 (October).	
		Guerry, Philippe and Reinhard Neier. <i>"Reduktion von 4-Pyridinonen."</i> Synthesis, June 1984 pp. 485-488.	
		Haider, et. al. <i>"140. Synthesis of 4-Oxo-1,2,3,4-tetrahydropyridine (2,3-Dihydro-4(1H)pyridinone)."</i> Helvetica Chimica Acta - Vol. 58, Fasc. 5 (1975) - Nr. 139 - 140 pp. 1287-1292.	
		Herrinton, et. al. <i>"Iodination and Metal Halogen Exchange of Aromatic Compounds: An Improved Preparation of a Key Oxazolidinone Antibiotic Intermediate."</i> Organic Process Research and Development 2001, 5, 80-83.	
		Ishii, et. al. <i>"Rhodium-Catalyzed Reaction of N-Acylpiperazines with CO and Ethylene, Carbonylation at a C-H Bond Directed by an Amido Group."</i> Tetrahedron Letters, Vol. 38, No. 43, pp. 7565-7568, 1997.	
		Kirschbaum, Stephen, and Herbert Waldmann. <i>"Construction of the Tricyclic Benzoquinolizine Ring System by Combination of a Tandem Mannich-Michael Reaction with a Heck Reaction."</i> Tetrahedron Letters, Vol. 38, No. 16, pp. 2829-2832, 1997.	
		Kirschbaum, Stepen, and Herbert waldmann. <i>"Three-Step Acces to the Tricyclic Benzo[a]quinolizine Ring System."</i> Journal of Organic Chemistry. 1998, 63, 4936-4946.	

LIST OF REFERENCES CITED BY APPLICANT <i>(Use several sheets if necessary)</i>		Atty. Docket No. 00489.US1	Serial No. 10/373286
		Applicants: Richard C. Thomas, Toni-Jo P el, Michael Barbachyn, Mikhail F. Gordeev, Gary Luehr, Adam Renslo, Upinder Singh	
		Filing Date February 24, 2003	Group 1614
		Lock, Ralf, and Herbert Waldmann. "Asymetric Synthesis of Highly Functionalized Tetracyclic Indole Bases Embodying the Basic Skeleton of Yohimbinep and Reserpine Type Alkaloids." Tetrahedron Lett rs, vol. 37, No. 16, pp. 2753-2756, 1996.	
		Lock, Ralf, and Herbert Waldmann. "Enantioselective Construction of Highly Fuctionalized Indoloquinolizines Congeners to Polycyclic Indole Alkaloids." Chem. Eur. J. 1997, 3, No. 1, pp. 143-151.	
		Mai, et. al. "N-[4-(1,1'-Biphenyl)Methyl]-4-(4-Thiomorpholinylmethyl) Benzenamines, a New Class of Synthetic Antituberculosis Agents Active Against Mycobacterium Avium." Medicinal Chemistry Research, 9:3 (1999) 149-161.	
		Notari, Robert E., "Theory and Practice of Prodrug Kinetics." Methods in Enzymology, Vol. 112, 1985, pp. 309-323.	
		Reggelin, Michael, and Cornelia Zur, "Sulfoximines; Structures, Properties and Synthetic Applications." Synthesis, 2000, No. 1, 1-64.	
		Roush, William R., and Bradley B. Brown. "Enantioselective Syntehsis of 2-Alkyl-5-methylene-1,3-dioxolan-4-ones and Exo-Selective Diels-Alder Reactions with Cyclopentadiene." Journal of Organic Chemistry. 1992, 57, 3380-3387.	
		Stutz, P., and PA Stadler, "A Novel Approach to Cyclic β -Carbonyl-Enamines 7,8 - Lysergic Acid Derivatives Via The Polonovski Reaction." Tetrahedron Letters No. 51, pp. 5095 - 5098, 1973.	
		Wagner, G. and S. Leistner, "Darstellung von 4.6-Dinitrobenzoxazolinonen und deren Spaltung zu 3.5-Dinitro-2-aminophenolen." Pharmazie, 1971, 26, 280-282.	
		Waldmann, et. al. "Asymmetric Synthesis of Indolo[2,3-a]quinolizidin-2—onesCongeners to Yohimbine-Type Alkaloids." Tetrahedron Vol. 49, No. 2, 1993, Pp. 397-416.	
		Yamamoto, Yutaka, and Akihiko Yanagi. "Studies on Organometallic Compounds, II Facile and Convenient Method for the Synthesis of Iodoazines through Iododestannation of Trimethylstannylazines." Chem Pharm. Bull. 30(5) 1731-1737(1982).	
Examiner		Date Considered	